

10/567130 Meldonium Salts

=> d his ful

(FILE 'HOME' ENTERED AT 14:58:36 ON 02 NOV 2006)

FILE 'HCAPLUS' ENTERED AT 14:59:19 ON 02 NOV 2006

L1 E KALVINSH I/AU
84 SEA ABB=ON PLU=ON ("KALVINSH I"/AU OR "KALVINSH I
YA"/AU OR "KALVINSH IVAR"/AU OR "KALVINSH IVAR YA"/AU
OR "KALVINSH IVAR YANOVICH"/AU OR "KALVINSH IVARS"/AU
OR "KALVINSH IVARS Y"/AU OR "KALVINSH IVARS YA"/AU)
E BIRMANS A/AU
L2 4 SEA ABB=ON PLU=ON "BIRMANS ANATOLIJS"/AU
L3 85 SEA ABB=ON PLU=ON (L1 OR L2)
L4 3 SEA ABB=ON PLU=ON L1 AND L2
L5 QUE ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDON?
OR QUATERIN?
L6 1 SEA ABB=ON PLU=ON L4 AND L5
SEL RN

FILE 'REGISTRY' ENTERED AT 15:01:56 ON 02 NOV 2006

L7 38 SEA ABB=ON PLU=ON (14807-96-6/BI OR 25322-68-3/BI OR
50-99-7/BI OR 56-81-5/BI OR 57-11-4/BI OR 57-50-1/BI
OR 63-42-3/BI OR 64-17-5/BI OR 67-68-5/BI OR 7631-86-9/
BI OR 7732-18-5/BI OR 839675-63-7/BI OR 839675-64-8/BI
OR 839675-65-9/BI OR 839675-66-0/BI OR 839675-67-1/BI
OR 839675-68-2/BI OR 839675-69-3/BI OR 839675-70-6/BI
OR 839675-71-7/BI OR 839675-72-8/BI OR 839675-74-0/BI
OR 839675-77-3/BI OR 839675-80-8/BI OR 839675-83-1/BI
OR 839675-85-3/BI OR 839675-86-4/BI OR 839675-87-5/BI
OR 839675-88-6/BI OR 839675-89-7/BI OR 839675-90-0/BI
OR 839675-91-1/BI OR 839675-92-2/BI OR 841303-59-1/BI
OR 841303-60-4/BI OR 85107-82-0/BI OR 9004-34-6/BI OR
9005-25-8/BI)
L8 1 SEA ABB=ON PLU=ON 76144-81-5/RN
D SCAN
D CN
E 59514-07-7/RN
L9 1 SEA ABB=ON PLU=ON 59514-07-7/RN
D SCAN
L10 32 SEA ABB=ON PLU=ON 59514-07-7/CRN
L11 39 SEA ABB=ON PLU=ON 73-97-2/CRN
L12 156 SEA ABB=ON PLU=ON 18610-42-9/CRN
L13 106 SEA ABB=ON PLU=ON 142-44-9/CRN
L14 115 SEA ABB=ON PLU=ON 18610-40-7/CRN
L15 122 SEA ABB=ON PLU=ON 142-42-7/CRN
L16 1379 SEA ABB=ON PLU=ON 14066-20-7/CRN
L17 23 SEA ABB=ON PLU=ON L10 AND L7
L18 6 SEA ABB=ON PLU=ON L10 AND ((L11 OR L12 OR L13 OR L14
OR L15 OR L16))
E 76144-81-5/CRN
L19 17 SEA ABB=ON PLU=ON 76144-81-5/CRN
L20 0 SEA ABB=ON PLU=ON L19 AND (L11 OR L12 OR L13 OR L14
OR L15 OR L16)
E C6H15N2O2/MF
L21 73 SEA ABB=ON PLU=ON C6H15N2O2.?/MF
E C6H14N2O2/MF
L22 693 SEA ABB=ON PLU=ON C6H14N2O2.?/MF

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FILE 'HCAPLUS' ENTERED AT 15:10:40 ON 02 NOV 2006

FILE 'REGISTRY' ENTERED AT 15:11:50 ON 02 NOV 2006

L23

1 SEA ABB=ON PLU=ON 86426-17-7/RN
D SCAN
D CN

FILE 'HCAPLUS' ENTERED AT 15:12:04 ON 02 NOV 2006

L24 168 SEA ABB=ON PLU=ON L8
L25 67 SEA ABB=ON PLU=ON L8/D OR L8/DP OR L8/THU
L26 4 SEA ABB=ON PLU=ON L23/D OR L23/DP OR L23/THU
L27 9 SEA ABB=ON PLU=ON L23
L28 2 SEA ABB=ON PLU=ON L9
L29 2 SEA ABB=ON PLU=ON L9/D OR L9/DP OR L9/THU
L30 1 SEA ABB=ON PLU=ON L18
L31 QUE ABB=ON PLU=ON L24 OR L27 OR L28
L32 QUE ABB=ON PLU=ON SALT OR ELECTROLYT? OR ANION OR
CATION OR ION
L33 2 SEA ABB=ON PLU=ON (L31 OR L5) (3A) L32
L34 2 SEA ABB=ON PLU=ON L17
L35 7545 SEA ABB=ON PLU=ON L21
L36 2954 SEA ABB=ON PLU=ON L22
L37 7 SEA ABB=ON PLU=ON L10
L38 81 SEA ABB=ON PLU=ON L11
L39 298 SEA ABB=ON PLU=ON L12
L40 124 SEA ABB=ON PLU=ON L13
L41 110 SEA ABB=ON PLU=ON L14
L42 143 SEA ABB=ON PLU=ON L15
L43 1390 SEA ABB=ON PLU=ON L16
L44 QUE ABB=ON PLU=ON (L38 OR L39 OR L40 OR L41 OR L42
OR L43)
L45 1 SEA ABB=ON PLU=ON L37 AND L44
L46 12 SEA ABB=ON PLU=ON L19
L47 0 SEA ABB=ON PLU=ON L46 AND L44

FILE 'REGISTRY' ENTERED AT 15:23:27 ON 02 NOV 2006

L48

0 SEA ABB=ON PLU=ON 86426-17-7/CRN

FILE 'HCAPLUS' ENTERED AT 15:23:56 ON 02 NOV 2006

L49 7545 SEA ABB=ON PLU=ON L21
L50 2954 SEA ABB=ON PLU=ON L22
L51 1 SEA ABB=ON PLU=ON L50 AND L44
L52 QUE ABB=ON PLU=ON (L25 OR L26) OR L29 OR L33
L53 QUE ABB=ON PLU=ON PHARMAC?/SC, SX
L54 QUE ABB=ON PLU=ON (DRUG? OR MEDICIN? OR PHARMAC?) (3A)
(DELIV? OR CARRIER?)
L55 3 SEA ABB=ON PLU=ON L49 AND L44

FILE 'REGISTRY' ENTERED AT 15:47:28 ON 02 NOV 2006

L56

QUE ABB=ON PLU=ON (L11 OR L12 OR L13 OR L14 OR L15
OR L16)

L57

6 SEA ABB=ON PLU=ON L21 AND L56

L58

0 SEA ABB=ON PLU=ON L22 AND L56

FILE 'HCAPLUS' ENTERED AT 15:48:42 ON 02 NOV 2006

L59

1 SEA ABB=ON PLU=ON L57

L60

3 SEA ABB=ON PLU=ON L49 AND L44

L61

21 SEA ABB=ON PLU=ON L30 OR (L33 OR L34) OR L37 OR L45
OR L19 OR L57 OR L60 OR L55

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D QUE L52
 L62 11 SEA ABB=ON PLU=ON L61 AND L53
 L63 5 SEA ABB=ON PLU=ON L61 AND L54
 L64 70 SEA ABB=ON PLU=ON L52 AND L53
 L65 19 SEA ABB=ON PLU=ON L64 AND L54
 L66 26 SEA ABB=ON PLU=ON (L62 OR L63) OR L65
 L67 11 SEA ABB=ON PLU=ON (L62 OR L63)
 L68 QUE ABB=ON PLU=ON PY<2004 OR PRY<2004 OR AY<2004
 L69 19 SEA ABB=ON PLU=ON L66 AND L68
 L70 9 SEA ABB=ON PLU=ON L69 AND L67
 L71 10 SEA ABB=ON PLU=ON L69 NOT L70

FILE 'CAOLD' ENTERED AT 16:02:30 ON 02 NOV 2006

L72 0 SEA ABB=ON PLU=ON L18
 L73 0 SEA ABB=ON PLU=ON L17
 L74 1 SEA ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRO?
 OR QUATERIN?
 L75 0 SEA ABB=ON PLU=ON L9
 L76 0 SEA ABB=ON PLU=ON L8
 L77 0 SEA ABB=ON PLU=ON L10
 L78 0 SEA ABB=ON PLU=ON L19
 L79 0 SEA ABB=ON PLU=ON L23
 L80 174 SEA ABB=ON PLU=ON L21
 L81 51 SEA ABB=ON PLU=ON L22
 L82 224 SEA ABB=ON PLU=ON (L80 OR L81)
 L83 0 SEA ABB=ON PLU=ON L82 AND L54

FILE 'BIOSIS' ENTERED AT 16:07:10 ON 02 NOV 2006

L84 0 SEA ABB=ON PLU=ON L18
 L85 0 SEA ABB=ON PLU=ON L17

FILE 'EMBASE' ENTERED AT 16:07:42 ON 02 NOV 2006

L86 0 SEA ABB=ON PLU=ON L18
 L87 0 SEA ABB=ON PLU=ON L57
 L88 0 SEA ABB=ON PLU=ON L17

FILE 'MEDLINE' ENTERED AT 16:09:04 ON 02 NOV 2006

L89 0 SEA ABB=ON PLU=ON L18
 L90 0 SEA ABB=ON PLU=ON L17
 L91 0 SEA ABB=ON PLU=ON L57
 L92 0 SEA ABB=ON PLU=ON L5(3A)L32
 L93 97 SEA ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRO?
 OR QUATERIN?
 L94 0 SEA ABB=ON PLU=ON L93 AND L54

FILE 'WPIX' ENTERED AT 16:10:46 ON 02 NOV 2006

L95 39 SEA ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRO?
 OR QUATERIN?
 L96 1 SEA ABB=ON PLU=ON L95 AND L54
 D SCAN
 D AU

FILE 'BIOSIS' ENTERED AT 16:11:40 ON 02 NOV 2006

L97 134 SEA ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRO?
 OR QUATERIN?
 L98 0 SEA ABB=ON PLU=ON L97 AND L54

FILE 'EMBASE' ENTERED AT 16:12:05 ON 02 NOV 2006

L99 97 SEA ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRO?

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OR QUATERIN?
L100 1 SEA ABB=ON PLU=ON L99 AND L54
D SCAN
D L100

L101 FILE 'MEDLINE' ENTERED AT 16:12:53 ON 02 NOV 2006
0 SEA ABB=ON PLU=ON L5 AND L54

L102 FILE 'HCAPLUS, WPIX, EMBASE' ENTERED AT 16:14:48 ON 02 NOV 2006
20 DUP REM L69 L96 L100 (1 DUPLICATE REMOVED)
D L102 1-20 TI AU

L103 FILE 'EMBASE' ENTERED AT 16:15:47 ON 02 NOV 2006
1 SEA L102
D TI AU

L104 0 SEA ABB=ON PLU=ON L103 AND L3

L105 FILE 'HCAPLUS' ENTERED AT 16:16:39 ON 02 NOV 2006
19 SEA L102

L106 6 SEA ABB=ON PLU=ON L105 AND L3

L107 19 SEA ABB=ON PLU=ON L105 OR L106

L108 9 SEA ABB=ON PLU=ON L70 AND L107
D SCAN

L109 10 S L107 NOT L108

=> => => d que stat l107

L1 84 SEA FILE=HCAPLUS ABB=ON PLU=ON ("KALVINSH I"/AU OR
"KALVINSH I YA"/AU OR "KALVINSH IVAR"/AU OR "KALVINSH
IVAR YA"/AU OR "KALVINSH IVAR YANOVICH"/AU OR "KALVINSH
IVARS"/AU OR "KALVINSH IVARS Y"/AU OR "KALVINSH IVARS
YA"/AU)

L2 4 SEA FILE=HCAPLUS ABB=ON PLU=ON "BIRMANS ANATOLIJS"/AU

L3 85 SEA FILE=HCAPLUS ABB=ON PLU=ON (L1 OR L2)

L5 QUE ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDON?
OR QUATERIN?

L7 38 SEA FILE=REGISTRY ABB=ON PLU=ON (14807-96-6/BI OR
25322-68-3/BI OR 50-99-7/BI OR 56-81-5/BI OR 57-11-4/BI
OR 57-50-1/BI OR 63-42-3/BI OR 64-17-5/BI OR 67-68-5/BI
I OR 7631-86-9/BI OR 7732-18-5/BI OR 839675-63-7/BI OR
839675-64-8/BI OR 839675-65-9/BI OR 839675-66-0/BI OR
839675-67-1/BI OR 839675-68-2/BI OR 839675-69-3/BI OR
839675-70-6/BI OR 839675-71-7/BI OR 839675-72-8/BI OR
839675-74-0/BI OR 839675-77-3/BI OR 839675-80-8/BI OR
839675-83-1/BI OR 839675-85-3/BI OR 839675-86-4/BI OR
839675-87-5/BI OR 839675-88-6/BI OR 839675-89-7/BI OR
839675-90-0/BI OR 839675-91-1/BI OR 839675-92-2/BI OR
841303-59-1/BI OR 841303-60-4/BI OR 85107-82-0/BI OR
9004-34-6/BI OR 9005-25-8/BI)

L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON 76144-81-5/RN

L9 1 SEA FILE=REGISTRY ABB=ON PLU=ON 59514-07-7/RN

L10 32 SEA FILE=REGISTRY ABB=ON PLU=ON 59514-07-7/CRN

L11 39 SEA FILE=REGISTRY ABB=ON PLU=ON 73-97-2/CRN

L12 156 SEA FILE=REGISTRY ABB=ON PLU=ON 18610-42-9/CRN

L13 106 SEA FILE=REGISTRY ABB=ON PLU=ON 142-44-9/CRN

L14 115 SEA FILE=REGISTRY ABB=ON PLU=ON 18610-40-7/CRN

L15 122 SEA FILE=REGISTRY ABB=ON PLU=ON 142-42-7/CRN

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L16 1379 SEA FILE=REGISTRY ABB=ON PLU=ON 14066-20-7/CRN
 L17 23 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L7
 L18 6 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND ((L11 OR L12
 OR L13 OR L14 OR L15 OR L16))
 L19 17 SEA FILE=REGISTRY ABB=ON PLU=ON 76144-81-5/CRN
 L21 73 SEA FILE=REGISTRY ABB=ON PLU=ON C6H15N2O2.7/MF
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON 86426-17-7/RN
 L24 168 SEA FILE=HCAPLUS ABB=ON PLU=ON L8
 L25 67 SEA FILE=HCAPLUS ABB=ON PLU=ON L8/D OR L8/DP OR
 L8/THU
 L26 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L23/D OR L23/DP OR
 L23/THU
 L27 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L23
 L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L9
 L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L9/D OR L9/DP OR
 L9/THU
 L30 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L18
 L31 QUE ABB=ON PLU=ON L24 OR L27 OR L28
 L32 QUE ABB=ON PLU=ON SALT OR ELECTROLYT? OR ANION OR CA
 TION OR ION
 L33 2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L31 OR L5) (3A) L32
 L34 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
 L37 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L10
 L38 81 SEA FILE=HCAPLUS ABB=ON PLU=ON L11
 L39 298 SEA FILE=HCAPLUS ABB=ON PLU=ON L12
 L40 124 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
 L41 110 SEA FILE=HCAPLUS ABB=ON PLU=ON L14
 L42 143 SEA FILE=HCAPLUS ABB=ON PLU=ON L15
 L43 1390 SEA FILE=HCAPLUS ABB=ON PLU=ON L16
 L44 QUE ABB=ON PLU=ON (L38 OR L39 OR L40 OR L41 OR L42 O
 R L43)
 L45 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND L44
 L49 7545 SEA FILE=HCAPLUS ABB=ON PLU=ON L21
 L52 QUE ABB=ON PLU=ON (L25 OR L26) OR L29 OR L33
 L53 QUE ABB=ON PLU=ON PHARMAC?/SC, SX
 L54 QUE ABB=ON PLU=ON (DRUG? OR MEDICIN? OR PHARMAC?) (3A
) (DELIV? OR CARRIER?)
 L55 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L44
 L56 QUE ABB=ON PLU=ON (L11 OR L12 OR L13 OR L14 OR L15 O
 R L16)
 L57 6 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND L56
 L60 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L44
 L61 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR (L33 OR L34)
 OR L37 OR L45 OR L19 OR L57 OR L60 OR L55
 L62 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L53
 L63 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L54
 L64 70 SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND L53
 L65 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L64 AND L54
 L66 26 SEA FILE=HCAPLUS ABB=ON PLU=ON (L62 OR L63) OR L65
 L68 QUE ABB=ON PLU=ON PY<2004 OR PRY<2004 OR AY<2004
 L69 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L66 AND L68
 L95 39 SEA FILE=WPIX ABB=ON PLU=ON MELDONIUM? OR MET(W) 88
 OR MILDROX? OR QUATERIN?
 L96 1 SEA FILE=WPIX ABB=ON PLU=ON L95 AND L54
 L99 97 SEA FILE=EMBASE ABB=ON PLU=ON MELDONIUM? OR MET(W) 88
 OR MILDROX? OR QUATERIN?
 L100 1 SEA FILE=EMBASE ABB=ON PLU=ON L99 AND L54
 L102 20 DUP REM L69 L96 L100 (1 DUPLICATE REMOVED)
 L105 19 SEA FILE=HCAPLUS L102

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L106 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L105 AND L3
L107 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L105 OR L106

=> d 1108 1-9 ibib abs hitstr hitind

L108 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2006:100738 HCAPLUS Full-text
DOCUMENT NUMBER: 144:198849
TITLE: Novel dosage form comprising modified-release
and immediate-release active ingredients
INVENTOR(S): Vaya, Navin; Karan, Rajesh Singh; Sadanand,
Sunil; Gupta, Vinod Kumar
PATENT ASSIGNEE(S): India
SOURCE: U.S. Pat. Appl. Publ., 49 pp., Cont.-in-part
of U.S. Ser. No. 630,446.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006024365	A1	20060202	US 2005-134633	2005 0519
IN 193042	A	20040626	IN 2002-MU697	2002 0805
US 2004096499	A1	20040520	US 2003-630446	2003 0729
			IN 2002-MU697	A 2002 0805
			IN 2002-MU699	A 2002 0805
			IN 2003-MU80	A 2003 0122
			IN 2003-MU82	A 2003 0122
			US 2003-630446	A2 2003 0729

AB A dosage form comprising of a high dose, high solubility active ingredient as modified release and a low dose active ingredient as immediate release where

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CN Hydrazinium, 2-(2-carboxyethyl)-1,1,1-trimethyl-, inner salt (9CI)
(CA INDEX NAME)



IC A61K031-205

CC 1-8 (Pharmacology)

Section cross-reference(s): 63

IT Drug delivery systems

(capsules; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT Drug delivery systems

(enemas, micro-; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT Drug delivery systems

(granules; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT Drug delivery systems

(ointments; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT Drug delivery systems

(powders; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT Drug delivery systems

(solns.; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT Drug delivery systems

(suppositories; **pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

IT 407-64-7, γ -Butyrobetaine 76144-81-5, Mildronate

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); **THU (Therapeutic use)**;

BIOL (Biological study); USES (Uses)

(**pharmaceutical** composition for treating cardiovascular diseases containing methylhydrazinium propionate and butyrobetaine)

=> => d que stat 1103

L5 QUE ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRON?
OR QUATERIN?

L7 38 SEA FILE=REGISTRY.ABB=ON PLU=ON (14807-96-6/BI OR
25322-68-3/BI OR 50-99-7/BI OR 56-81-5/BI OR 57-11-4/BI
OR 57-50-1/BI OR 63-42-3/BI OR 64-17-5/BI OR 67-68-5/B
I OR 7631-86-9/BI OR 7732-18-5/BI OR 839675-63-7/BI OR
839675-64-8/BI OR 839675-65-9/BI OR 839675-66-0/BI OR
839675-67-1/BI OR 839675-68-2/BI OR 839675-69-3/BI OR
839675-70-6/BI OR 839675-71-7/BI OR 839675-72-8/BI OR
839675-74-0/BI OR 839675-77-3/BI OR 839675-80-8/BI OR

20061103-10567130-str.rtf

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839675-83-1/BI OR 839675-85-3/BI OR 839675-86-4/BI OR
839675-87-5/BI OR 839675-88-6/BI OR 839675-89-7/BI OR
839675-90-0/BI OR 839675-91-1/BI OR 839675-92-2/BI OR
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L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON 76144-81-5/RN
L9 1 SEA FILE=REGISTRY ABB=ON PLU=ON 59514-07-7/RN
L10 32 SEA FILE=REGISTRY ABB=ON PLU=ON 59514-07-7/CRN
L11 39 SEA FILE=REGISTRY ABB=ON PLU=ON 73-97-2/CRN
L12 156 SEA FILE=REGISTRY ABB=ON PLU=ON 18610-42-9/CRN
L13 106 SEA FILE=REGISTRY ABB=ON PLU=ON 142-44-9/CRN
~~L14 115 SEA FILE=REGISTRY ABB=ON PLU=ON 18610-40-7/CRN~~
L15 122 SEA FILE=REGISTRY ABB=ON PLU=ON 142-42-7/CRN
L16 1379 SEA FILE=REGISTRY ABB=ON PLU=ON 14066-20-7/CRN
L17 23 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L7
L18 6 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND ((L11 OR L12
OR L13 OR L14 OR L15 OR L16))
L19 17 SEA FILE=REGISTRY ABB=ON PLU=ON 76144-81-5/CRN
L21 73 SEA FILE=REGISTRY ABB=ON PLU=ON C6H15N2O2.?/MF
L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON 86426-17-7/RN
L24 168 SEA FILE=HCAPLUS ABB=ON PLU=ON L8
L25 67 SEA FILE=HCAPLUS ABB=ON PLU=ON L8/D OR L8/DP OR
L8/THU
L26 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L23/D OR L23/DP OR
L23/THU
L27 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L23
L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L9
L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L9/D OR L9/DP OR
L9/THU
L30 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L18
L31 QUE ABB=ON PLU=ON L24 OR L27 OR L28
L32 QUE ABB=ON PLU=ON SALT OR ELECTROLYT? OR ANION OR CA
TION OR ION
L33 2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L31 OR L5) (3A) L32
L34 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
L37 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L10
L38 81 SEA FILE=HCAPLUS ABB=ON PLU=ON L11
L39 298 SEA FILE=HCAPLUS ABB=ON PLU=ON L12
L40 124 SEA FILE=HCAPLUS ABB=ON PLU=ON L13
L41 110 SEA FILE=HCAPLUS ABB=ON PLU=ON L14
L42 143 SEA FILE=HCAPLUS ABB=ON PLU=ON L15
L43 1390 SEA FILE=HCAPLUS ABB=ON PLU=ON L16
L44 QUE ABB=ON PLU=ON (L38 OR L39 OR L40 OR L41 OR L42 O
R L43)
L45 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND L44
L49 7545 SEA FILE=HCAPLUS ABB=ON PLU=ON L21
L52 QUE ABB=ON PLU=ON (L25 OR L26) OR L29 OR L33
L53 QUE ABB=ON PLU=ON PHARMAC?/SC, SX
L54 QUE ABB=ON PLU=ON (DRUG? OR MEDICIN? OR PHARMAC?) (3A
) (DELIV? OR CARRIER?)
L55 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L44
L56 QUE ABB=ON PLU=ON (L11 OR L12 OR L13 OR L14 OR L15 O
R L16)
L57 6 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND L56
L60 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L44
L61 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR (L33 OR L34)
OR L37 OR L45 OR L19 OR L57 OR L60 OR L55
L62 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L53
L63 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L54

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L64 70 SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND L53
L65 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L64 AND L54
L66 26 SEA FILE=HCAPLUS ABB=ON PLU=ON (L62 OR L63) OR L65
L68 QUE ABB=ON PLU=ON PY<2004 OR PRY<2004 OR AY<2004
L69 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L66 AND L68
L95 39 SEA FILE=WPIX ABB=ON PLU=ON MELDONIUM? OR MET(W)88
OR MILDROX? OR QUATERIN?
L96 1 SEA FILE=WPIX ABB=ON PLU=ON L95 AND L54
L99 97 SEA FILE=EMBASE ABB=ON PLU=ON MELDONIUM? OR MET(W)88
OR MILDROX? OR QUATERIN?
L100 1 SEA FILE=EMBASE ABB=ON PLU=ON L99 AND L54
~~L102 20 DUP REM L69-L96-L100 (1 DUPLICATE REMOVED)~~
L103 1 SEA FILE=EMBASE L102

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L103 ANSWER 1 OF 1 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2005038047 EMBASE Full-text

TITLE: Targeted **drug delivery** to mammalian mitochondria in living cells.

AUTHOR: Weissig V.

CORPORATE SOURCE: Dr. V. Weissig, Northeastern University, Department of Pharmaceut. Sciences, Bouve College of Health Sciences, 360 Huntington Avenue, Boston, MA 02115, United States. v.weissig@neu.edu

SOURCE: Expert Opinion on Drug Delivery, (2005) Vol. 2, No. 1, pp. 89-102. .

Refs: 102

ISSN: 1742-5247

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 005 General Pathology and Pathological Anatomy
022 Human Genetics
029 Clinical Biochemistry
030 Pharmacology
037 Drug Literature Index
039 Pharmacy

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 4 Feb 2005

Last Updated on STN: 4 Feb 2005

ABSTRACT: Mitochondrial dysfunction causes or contributes to a large number of human disorders including neuromuscular and neurodegenerative diseases, diabetes, ischaemia-reperfusion injury and cancer. Increasing efforts are being made towards mitochondria-directed pharmacological intervention, leading to the emergence of 'mitochondrial medicine' as a new field of biomedical research. The identification of new molecular mitochondrial drug targets in combination with the development of methods for selectively delivering biologically active molecules to the site of mitochondria will eventually launch new therapies for the treatment of mitochondria-related diseases, based either on the selective protection, repair or eradication of cells. This review discusses the need for the development of mitochondria-specific **drug** and DNA **delivery** systems, and evaluates the currently employed strategies for mitochondrial drug targeting, including some of their potential therapeutic applications. .COPYRGT. 2005 Ashley Publications

20061103-10567130-str.rtf

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paclitaxel: PR, pharmaceuticals
 paclitaxel: PD, pharmacology
 phospholipid: PR, pharmaceuticals
 unindexed drug

RN (ranolazine) 95635-55-5; (perhexiline) 6621-47-2; (
mildronate) 76144-81-5; (trimetazidine) 13171-25-0,
 5011-34-7; (hypoglycine A) 156-56-9; (dichloroacetic acid)
 13425-80-4, 2156-56-1, 79-43-6; (cyclosporin A) 59865-13-3,
 63798-73-2; (cyclophilin) 126043-36-5; (carboxyfluorescein)
 72088-94-9; (ficoll) 25702-74-3; (rhodamine 123) 62669-70-9;
 (methyltriphenylphosphonium) 1031-15-8, 15912-74-0, 1779-49-3;
 (dequalinium) 4028-98-2, 522-51-0, 6707-58-0, 8054-75-9; (1,1'
 bis(2 ethyl 1,3 dioxolan 2 yl)cryptocyanine) 106789-30-4;
 (paclitaxel) 33069-62-4

CN **Met 88**

=> => d que stat 1117

L1 84 SEA FILE=HCAPLUS ABB=ON PLU=ON ("KALVINSH I"/AU OR
 "KALVINSH I YA"/AU OR "KALVINSH IVAR"/AU OR "KALVINSH
 IVAR YA"/AU OR "KALVINSH IVAR YANOVICH"/AU OR "KALVINSH
 IVARS"/AU OR "KALVINSH IVARS Y"/AU OR "KALVINSH IVARS
 YA"/AU)
 L2 4 SEA FILE=HCAPLUS ABB=ON PLU=ON "BIRMANS ANATOLIJS"/AU
 L3 85 SEA FILE=HCAPLUS ABB=ON PLU=ON (L1 OR L2)
 L5 QUE ABB=ON PLU=ON MELDONIUM? OR MET(W)88 OR MILDRON?
 OR QUATERIN?
 L7 38 SEA FILE=REGISTRY ABB=ON PLU=ON (14807-96-6/BI OR
 25322-68-3/BI OR 50-99-7/BI OR 56-81-5/BI OR 57-11-4/BI
 OR 57-50-1/BI OR 63-42-3/BI OR 64-17-5/BI OR 67-68-5/B
 I OR 7631-86-9/BI OR 7732-18-5/BI OR 839675-63-7/BI OR
 839675-64-8/BI OR 839675-65-9/BI OR 839675-66-0/BI OR
 839675-67-1/BI OR 839675-68-2/BI OR 839675-69-3/BI OR
 839675-70-6/BI OR 839675-71-7/BI OR 839675-72-8/BI OR
 839675-74-0/BI OR 839675-77-3/BI OR 839675-80-8/BI OR
 839675-83-1/BI OR 839675-85-3/BI OR 839675-86-4/BI OR
 839675-87-5/BI OR 839675-88-6/BI OR 839675-89-7/BI OR
 839675-90-0/BI OR 839675-91-1/BI OR 839675-92-2/BI OR
 841303-59-1/BI OR 841303-60-4/BI OR 85107-82-0/BI OR
 9004-34-6/BI OR 9005-25-8/BI)
 L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON 76144-81-5/RN
 L9 1 SEA FILE=REGISTRY ABB=ON PLU=ON 59514-07-7/RN
 L10 32 SEA FILE=REGISTRY ABB=ON PLU=ON 59514-07-7/CRN
 L11 39 SEA FILE=REGISTRY ABB=ON PLU=ON 73-97-2/CRN
 L12 156 SEA FILE=REGISTRY ABB=ON PLU=ON 18610-42-9/CRN
 L13 106 SEA FILE=REGISTRY ABB=ON PLU=ON 142-44-9/CRN
 L14 115 SEA FILE=REGISTRY ABB=ON PLU=ON 18610-40-7/CRN
 L15 122 SEA FILE=REGISTRY ABB=ON PLU=ON 142-42-7/CRN
 L16 ~~137.9 SEA FILE=REGISTRY ABB=ON PLU=ON 14066-20-7/CRN~~
 L17 23 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L7
 L18 6 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND ((L11 OR L12
 OR L13 OR L14 OR L15 OR L16))
 L19 17 SEA FILE=REGISTRY ABB=ON PLU=ON 76144-81-5/CRN
 L21 73 SEA FILE=REGISTRY ABB=ON PLU=ON C6H15N2O2.?/MF
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON 86426-17-7/RN
 L24 168 SEA FILE=HCAPLUS ABB=ON PLU=ON L8
 L25 67 SEA FILE=HCAPLUS ABB=ON PLU=ON L8/D OR L8/DP. OR
 L8/THU

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L26 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L23/D OR L23/DP OR L23/THU

L27 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L23

L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L9

L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L9/D OR L9/DP OR L9/THU

L30 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L18

L31 QUE ABB=ON PLU=ON L24 OR L27 OR L28

L32 QUE ABB=ON PLU=ON SALT OR ELECTROLYT? OR ANION OR CATION OR ION

L33 2 SEA FILE=HCAPLUS ABB=ON PLU=ON (L31 OR L5) (3A) L32

L34 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L17

L37 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L10

L38 81 SEA FILE=HCAPLUS ABB=ON PLU=ON L11

L39 298 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

L40 124 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

L41 110 SEA FILE=HCAPLUS ABB=ON PLU=ON L14

L42 143 SEA FILE=HCAPLUS ABB=ON PLU=ON L15

L43 1390 SEA FILE=HCAPLUS ABB=ON PLU=ON L16

L44 QUE ABB=ON PLU=ON (L38 OR L39 OR L40 OR L41 OR L42 OR L43)

L45 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 AND L44

L49 7545 SEA FILE=HCAPLUS ABB=ON PLU=ON L21

L52 QUE ABB=ON PLU=ON (L25 OR L26) OR L29 OR L33

L53 QUE ABB=ON PLU=ON PHARMAC?/SC, SX

L54 QUE ABB=ON PLU=ON (DRUG? OR MEDICIN? OR PHARMAC?) (3A) (DELIV? OR CARRIER?)

L55 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L44

L56 QUE ABB=ON PLU=ON (L11 OR L12 OR L13 OR L14 OR L15 OR L16)

L57 6 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND L56

L60 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L44

L61 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L30 OR (L33 OR L34) OR L37 OR L45 OR L19 OR L57 OR L60 OR L55

L62 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L53

L63 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L54

L64 70 SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND L53

L65 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L64 AND L54

L66 26 SEA FILE=HCAPLUS ABB=ON PLU=ON (L62 OR L63) OR L65

L68 QUE ABB=ON PLU=ON PY<2004 OR PRY<2004 OR AY<2004

L69 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L66 AND L68

L95 39 SEA FILE=WPIX ABB=ON PLU=ON MELDONIUM? OR MET(W) 88 OR MILDON? OR QUATERIN?

L96 1 SEA FILE=WPIX ABB=ON PLU=ON L95 AND L54

L99 97 SEA FILE=EMBASE ABB=ON PLU=ON MELDONIUM? OR MET(W) 88 OR MILDON? OR QUATERIN?

L100 1 SEA FILE=EMBASE ABB=ON PLU=ON L99 AND L54

L102 20 DUP REM L69 L96 L100 (1 DUPLICATE REMOVED)

L105 19 SEA FILE=HCAPLUS L102

~~L106 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L105 AND L3~~

L107 19 SEA FILE=HCAPLUS ABB=ON PLU=ON L105 OR L106

L115 14 SEA FILE=HCAPLUS ABB=ON PLU=ON L111 OR L112

L116 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L115 NOT L107

L117 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L116 AND L68

=> d l117 1-4 ibib abs

L117 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

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